

CLAIMS

The following is a listing of all claims in the application with their status and the text of all active claims.

1. (CURRENTLY AMENDED) A method of displaying information in a window on a computer system including a display, said window displaying only part of its related information, the method comprising:

providing a window for displaying information; further comprising the step of providing means for scrolling the window; and

displaying in the window a first portion of its related information; and

~~causing the first portion of window's related information to be described in computer memory as processed information, different from the rest of window's related information ("not processed information"); and~~

scrolling the window to a second portion of its related information, further comprising the step of

causing visual clues, visually distinguishing ~~processed~~ information that overlaps from said first portion and new not processed information that does not overlap from said first portion ~~displayed in the window after scrolling~~, to be displayed in the window so that said distinguishing visual clues do not obstruct the view of said new not processed information; and

disabling the distinguishing visual clues after a first predetermined amount of time.

2. (CANCELED)

3. (CURRENTLY AMENDED) The method of claim 1, ~~wherein further comprising the step of:~~

the distinguishing visual clues are displayed in the window after scrolling
~~causing the first portion of window's related information to be described in~~
~~computer memory as processed information, different from the rest of~~
~~window's related information ("not processed information") if and only if the~~
first portion of window's related information has been displayed in the window
before scrolling for more then a second predetermined amount of time.

4. (CURRENTLY AMENDED) The method of claim 3 ~~claim 1~~,
wherein providing the directing visual clues is accomplished via displaying
processed information and not processed information as visually different,
which is accomplished by changing visual attributes of foreground and
background of processed information, visual attributes of foreground and
background of not processed information, or visual attributes of foreground
and background of both processed and not processed information; said visual
attributes are selected from the group consisting of at least: color, intensity,
texture, contrast, brightness, orientation, gloss, line width, line pattern, line
density, line fuzziness, blinking, movement, gradient, shadow, lighting, depth,
image vagueness, font type, font size, font style, font format, size of visual
components, after scrolling display time delay, as well as combinations and
dynamic transformations of the above attributes.
5. (CURRENTLY AMENDED) The method of claim 3 ~~claim 4~~,
wherein providing the distinguishing ~~directing~~ visual clues is accomplished via
visual de-emphasis of processed information, said de-emphasis accomplished
through changing visual attributes of the visual image displaying processed
information to make said visual image less salient.
6. (CURRENTLY AMENDED) The method of claim 3 ~~claim 4~~,
wherein providing the distinguishing ~~directing~~ visual clues is accomplished via
visual emphasis of not processed information, such as changing visual
attributes of the visual image displaying not processed information to make
said visual image more salient.

7. (CURRENTLY AMENDED) The method of claim 6,
wherein providing the distinguishing directing visual clues is accomplished via visual emphasis of a part of not processed information, said part located near area, on which a user is likely to focus his or her attention immediately after scrolling.
8. (CANCELED)
9. (CANCELED)
10. (CANCELED)
11. (CURRENTLY AMENDED) The method of claim 3 ~~claim 4~~,
wherein disabling the distinguishing directing visual clues is performed so that said visual clues are being disabled gradually.
12. (CANCELED)
13. (CANCELED)
14. (CURRENTLY AMENDED) The method of claim 3 ~~claim 4~~,
wherein means are provided for defining an effective area as a rectangle within the window area; and

wherein the distinguishing visual clues are displayed to separate new information displayed in the window after scrolling from information that overlaps from the part of the first portion displayed ~~only the portion of window's related information displayed in the effective area is marked as processed information and the rest of window's related information as not processed information.~~

15. (CURRENTLY AMENDED) The method of claim 14 further comprising the steps of

allowing a user to carry out small increment scrolling by using an input device that a user can use while simultaneously controlling the screen pointer; and

allowing a user to dynamically define the effective area by moving screen pointer so that the Y screen coordinate of screen pointer is equal to the Y screen coordinate of the bottom of the effective area in the case of small increment downwards scrolling and/or the Y screen coordinate of screen pointer is equal the Y screen coordinate of the top of the effective area in the case of small increment upwards scrolling.

16. (PREVIOUSLY PRESENTED) The method of claim 14, further comprising the step of:

providing a screen control or controls emerging in a window after small increment scrolling for a fourth predetermined amount of time; and

allowing a user to define the effective area by dragging the emerging screen control or screen controls.

17. (CURRENTLY AMENDED) The method of claim 3 ~~claim 4~~,

wherein means are provided for a user to set one or more settings selected from a group consisting of at least: the first predetermined amount of time, the second predetermined amount of time, direction of scrolling, types of directing visual clues and their behaviors, parameters of the effective area, whether controls and methods for defining effective area are enabled or disabled, correspondence between parameters of scrolling and types of the determining visual clues, whether the determining visual clues are enabled or disabled.

18. (CURRENTLY AMENDED) The method of claim 3 ~~claim 4~~, further comprising the steps of

providing means for resizing the window; and

displaying in the window after resizing a third portion of window's related information, said third portion possibly overlapping with the first portion; and

causing visual clues, visually distinguishing ~~processed~~ information that overlaps from said first portion and new not-processed information that does not overlap from said first portion ~~displayed in the window after resizing~~, to be displayed in the window so that said distinguishing visual clues do not obstruct the view of said new not-processed information; and

disabling the distinguishing visual clues after a fourth predetermined amount of time.

19. (CURRENTLY AMENDED) An apparatus comprising a display device and a memory storage, further comprising:

means for displaying information in a window; and

means for scrolling the window; and

means for displaying in the window a portion of its related information;

means for receiving scroll initiate events; and

~~means for causing the displayed portion of window's related information to be described in computer memory as processed information, different from the rest of window's related information ("not-processed information"); and~~

means for scrolling the window to a next portion of its related information; and

means for causing visual clues, visually distinguishing ~~processed~~ information that overlaps from said first portion and new not-processed information that does not overlap from said first portion ~~displayed in the window after scrolling~~,

to be displayed in the window so that said distinguishing visual clues do not obstruct the view of said new not processed information; and

means for disabling the distinguishing visual clues after a first predetermined amount of time.

20. (CURRENTLY AMENDED) The apparatus of claim 19, further comprising:

means for causing the distinguishing visual clues to be displayed in the window after scrolling ~~displayed portion of window's related information being described in computer memory as processed information, different from the rest of window's related information ("not processed information")~~ if and only if the displayed portion of window's related information has been displayed in the window before scrolling for more than a fifth predetermined amount of time.

21. (CANCELED)

22. (CANCELED)

23. (CANCELED)

24. (CURRENTLY AMENDED) The apparatus of claim 19, further comprising:

means for detecting the scrolling increment; and

means for detecting the direction of scrolling; and

means for detecting the input device or devices used for scrolling; and

means for detecting the type of scroll initiate event; and

means for selecting the distinguishing directing visual clues depending on one or more parameters selected from the group consisting of at least: scrolling increment, scrolling direction, location of processed information in a window after scrolling, input device used for scrolling, and type of scroll initiate event.

25. (CANCELED)

26. (CURRENTLY AMENDED) The apparatus of claim 19, further comprising:
means for allowing a user to set one or more settings selected from the group consisting of at least: the first predetermined amount of time, the second predetermined amount of time, types of distinguishing determining visual clues and their behaviors, parameters of the defined rectangle, direction of scrolling, location of processed information in a window after scrolling, whether controls and methods for defining the defined rectangle are enabled or disabled, correspondence between parameters of scrolling and types of the distinguishing determining visual clues, whether the distinguishing determining visual clues are enabled or disabled, whether the distinguishing determining visual clues are enabled or disabled for different types of scrolling.

27. (CURRENTLY AMENDED) The method of claim 3 ~~claim 1~~,
wherein providing the distinguishing directing visual clues is accomplished via displaying either processed information or not processed information in the window after scrolling with a delay of a third predetermined amount of time.

28. (CURRENTLY AMENDED) The method of claim 3 ~~claim 1~~,
wherein distinguishing directing visual clues are enabled only when the second portion is the last portion of the window related information.